WHAT IS CLAIMED IS:

1. A method for making controlled-release ammonium phosphate fertilizer comprising following acts:

adding release-controlling materials into ammonium phosphate slurry;

mixing evenly the ammonium phosphate slurry and the release-controlling materials into a mixture;

condensing the mixture of the ammonium phosphate slurry and the release-controlling materials until a water-content rate of the mixture reaches 25~35% (w/w, based on a dry weight of the ammonium phosphate slurry); and

granulating the condensed mixture of the ammonium phosphate slurry and the release-controlling materials to obtain granular controlled-release ammonium phosphate fertilizer.

2. The method as claimed in claim 1, wherein sulfuric acid is further added to the mixture of the ammonium phosphate and the release-controlling material to acidify the mixture before condensing;

wherein the sulfuric acid is 1~20% (w/w, based on the dry weight of the ammonium phosphate slurry).

3 .The method as claimed in claim 1, wherein the release-controlling material is selected from at least one of the group comprising: zeolite, montmorillonite, pillared montmorillonite, and lignin comprising alkali lignin and lignosulfonate or lignosulphonate.

4.The method as claimed in claim 2, wherein the release-controlling

material is selected from at least one of the group comprising: acidified zeolite, acidified montmorillonite, acidified pillared montmorillonite, and acidified lignin comprising acidified alkali lignin and acidified lignosulfonate or lignosulphonate.

5. The method as claimed in claim 3, wherein the release-controlling material is 3~35%(w/w, based on the dry weight of the ammonium phosphate slurry).

6. The method as claimed in claim 4, wherein the release-controlling material is 3~35%(w/w, based on the dry weight of the ammonium phosphate slurry).

7. The method as claimed in claim 1, wherein the granulating methods are selected from the following methods comprising: slurry granulating, spray granulating, and fluidization granulating.

8. The method as claimed in claim 5, wherein the granulating methods are selected from following methods comprising: slurry granulating, spray granulating, and fluidization granulating.

9. The method as claimed in claim 6, wherein the granulating methods are selected from following methods comprising: slurry granulating, spray granulating, and fluidization granulating.

10. A method for making controlled-release ammonium phosphate fertilizer comprising following acts:

adding release-controlling material and water into ammonium phosphate powder;

mixing evenly the ammonium phosphate powder, the release-

controlling material and water into a mixture;

grinding the mixture;

activating the components in the mixture by piling;

drying the activated mixture to achieve the controlled-release ammonium phosphate fertilizer.

11. The method as claimed in claim 10, wherein sulfuric acid is further added into the mixture of the ammonium phosphate and the release-controlling material to acidify the mixture before grinding act;

wherein the sulfuric acid is 1~20% (w/w, based on a weight of the ammonium phosphate powder).

12 .The method as claimed in claim 10, wherein the release-controlling material is selected from at least one of the group comprising: zeolite, montmorillonite, pillared montmorillonite, and lignin comprising alkali lignin and lignosulfonate or lignosulphonate

13.The method as claimed in claim 10, wherein the release-controlling material is selected from at least one of the group comprising: acidified zeolite, acidified montmorillonite, acidified pillared montmorillonite, and acidified lignin comprising acidified alkali lignin and acidified lignosulfonate or lignosulphonate .

14. The method as claimed in claim 12, wherein the release-controlling materials are in proportion of 3~35% (w/w, based on a weight of the ammonium phosphate powder) and the water is in proportion of 3~40% (w/w, based on the weight of the ammonium phosphate powder).

15. The method as claimed in claim 13, wherein the release-

controlling materials are in proportion of 3~35% (w/w, based on a weight of the ammonium phosphate powder) and the water is in proportion of 3~40% (w/w, based on the weight of the ammonium phosphate powder).